

## ABSTRACT OF THE DISCLOSURE

A transmitting device to send an input signal in a channel includes an equalization system. The equalization system includes a decision subsystem to determine when adjustments need to be made based on the frequency of 0s or 1s in the input signal. The equalization system also includes an equalization subsystem to determine, by default, or by user choice, a compensation for a channel's amplitude variation due to frequency response, and to apply the compensation to the input signal and generate an equalized output signal.